

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P853261

Luminaire Tested: **GLAN-SB9D-850-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB9D-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 78660 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

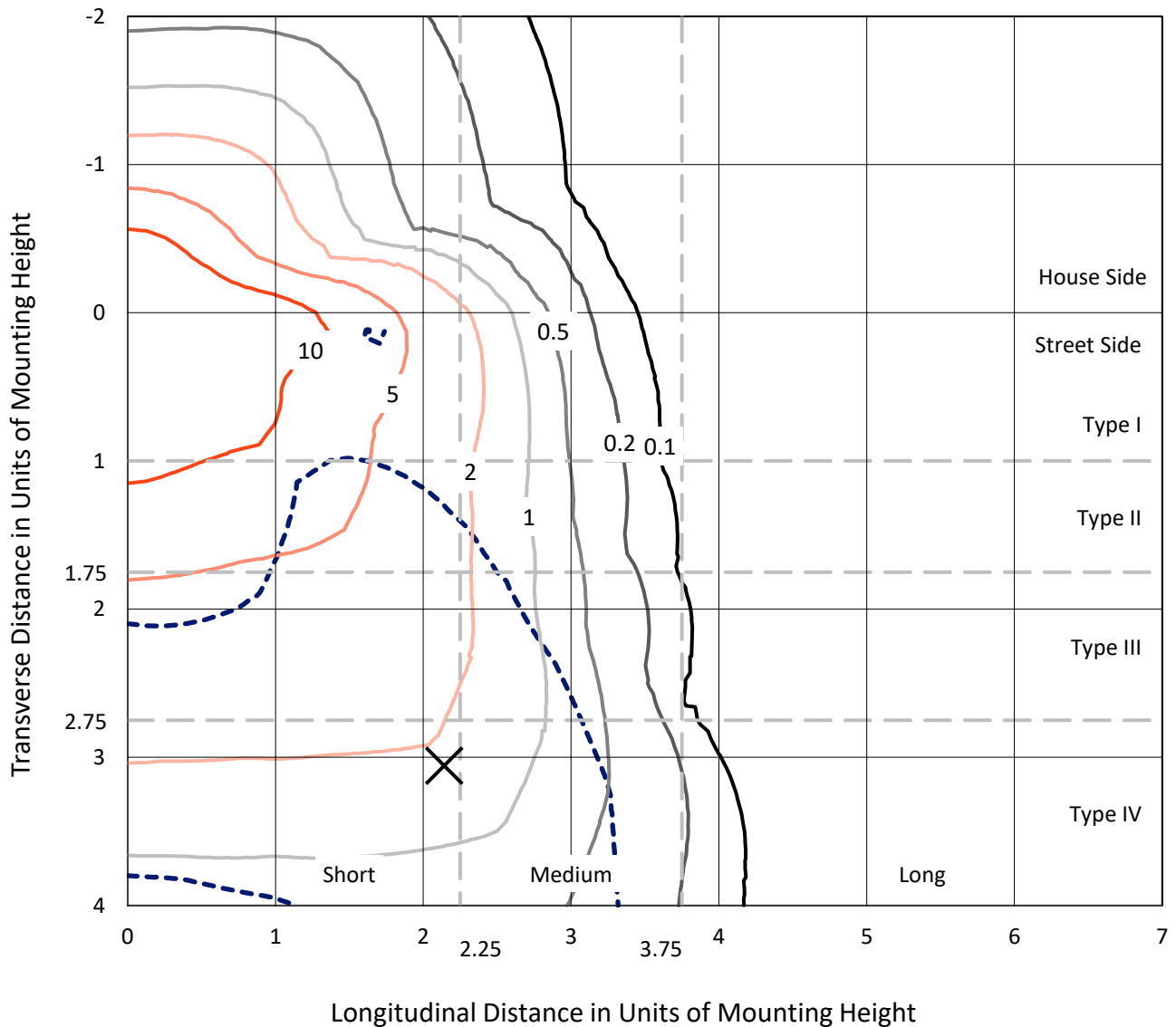
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

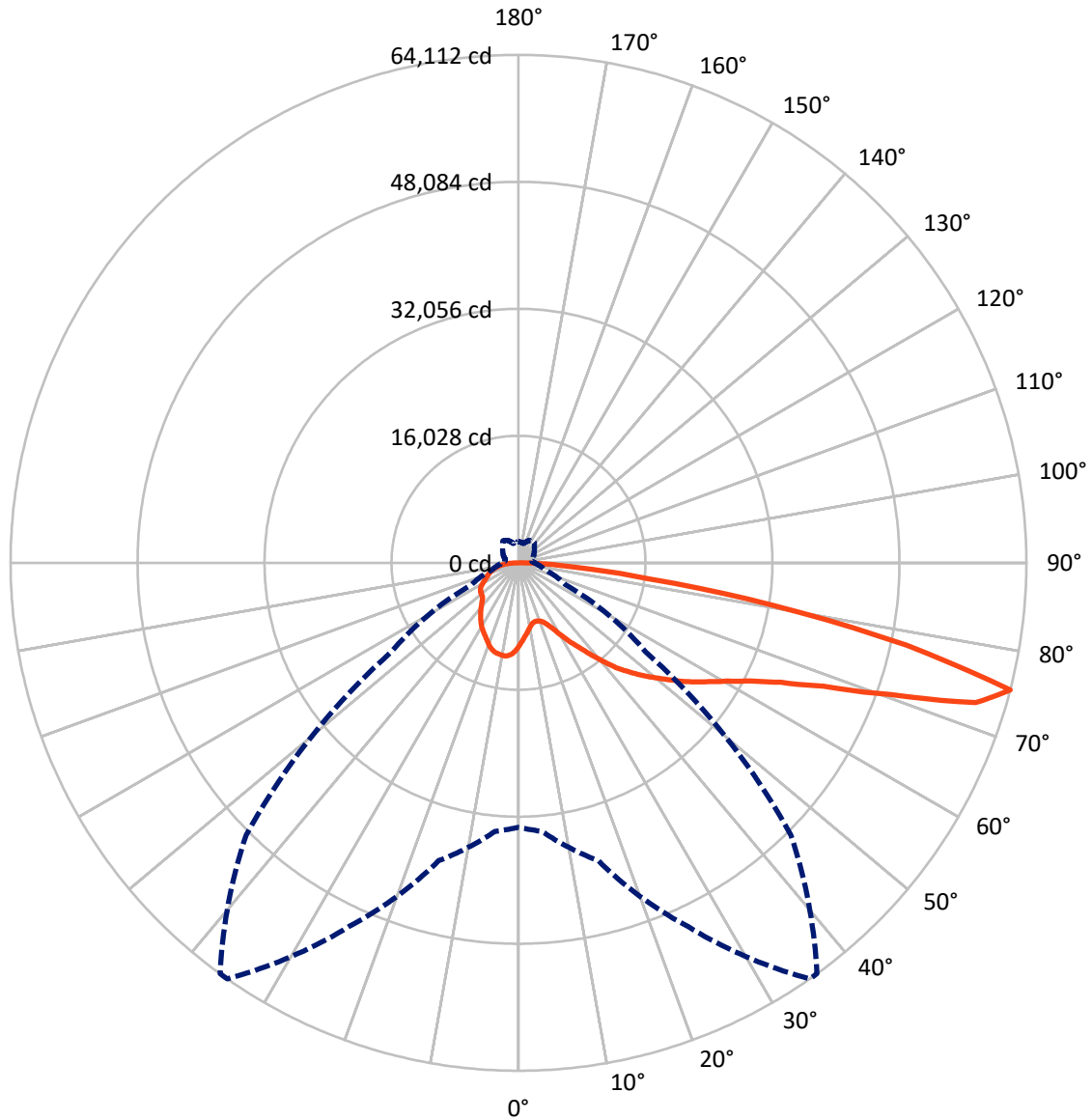
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GLAN-SB9D-850-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 18719.1 | 0.0 | 18719.1 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 59940.9 | 0.0 | 59940.9 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 78660.0 | 0.0 | 78660.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 992.4 | 1.3 |
| 10°-20° | 2862.6 | 3.6 |
| 20°-30° | 4807.1 | 6.1 |
| 30°-40° | 7470.9 | 9.5 |
| 40°-50° | 11088.7 | 14.1 |
| 50°-60° | 15308.7 | 19.5 |
| 60°-70° | 18572.9 | 23.6 |
| 70°-80° | 15349.1 | 19.5 |
| 80°-90° | 2207.7 | 2.8 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 78660.0 | 100.0 |
| 0°-180° | 78660.0 | 100.0 |

Coefficient of Utilization

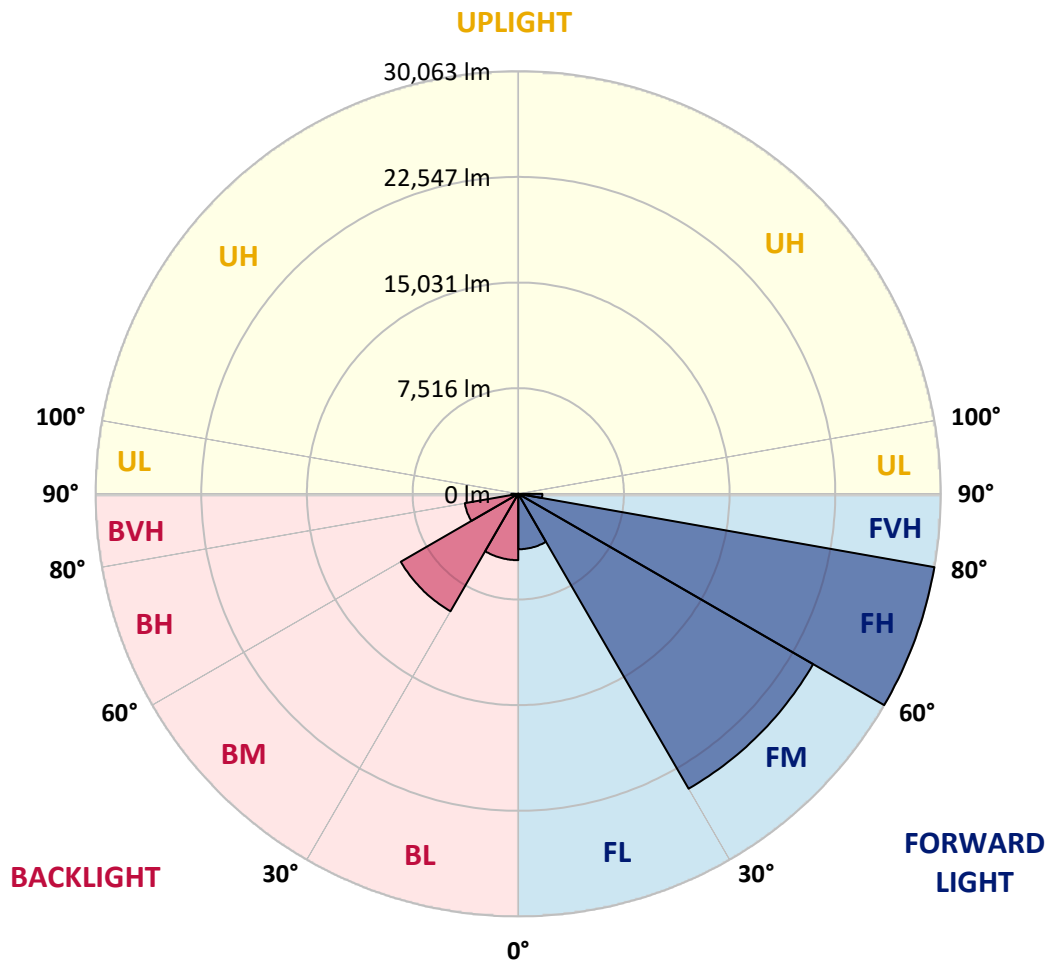


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3944.6 | 5.0 | | | |
| FM (30°-60°) | 24223.0 | 30.8 | | | |
| FH (60°-80°) | 30062.7 | 38.2 | | | G5 |
| FVH (80°-90°) | 1710.6 | 2.2 | | | G5 |
| BL (0°-30°) | 4717.5 | 6.0 | B4/5000 | | |
| BM (30°-60°) | 9645.2 | 12.3 | B5 | | |
| BH (60°-80°) | 3859.3 | 4.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 497.1 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10482.0 | 10482.0 | 10482.0 | 10482.0 | 10482.0 | 10482.0 | 10482.0 | 10482.0 | 10482.0 | 10482.0 |
| 2.5° | 9665.5 | 9725.1 | 9750.6 | 9737.8 | 9801.6 | 9793.1 | 9882.4 | 9993.0 | 10146.0 | 10294.9 |
| 5° | 8921.4 | 8985.2 | 9040.4 | 9091.5 | 9214.8 | 9253.1 | 9393.4 | 9606.0 | 9886.7 | 10171.6 |
| 7.5° | 8228.2 | 8283.5 | 8368.6 | 8462.1 | 8670.5 | 8708.8 | 8942.6 | 9274.3 | 9665.5 | 10082.3 |
| 10° | 7662.7 | 7718.0 | 7807.3 | 7913.6 | 8173.0 | 8219.7 | 8517.4 | 8959.6 | 9469.9 | 9997.2 |
| 12.5° | 7420.3 | 7437.3 | 7488.3 | 7594.6 | 7820.0 | 7849.8 | 8177.2 | 8683.2 | 9278.6 | 9933.4 |
| 15° | 7407.5 | 7441.6 | 7445.8 | 7501.1 | 7688.2 | 7701.0 | 8002.9 | 8504.6 | 9159.5 | 9920.7 |
| 17.5° | 7535.1 | 7560.6 | 7522.4 | 7556.4 | 7713.7 | 7735.0 | 7973.1 | 8419.6 | 9121.2 | 9976.0 |
| 20° | 7875.3 | 7896.6 | 7781.8 | 7735.0 | 7849.8 | 7866.8 | 8100.7 | 8474.9 | 9159.5 | 10090.8 |
| 22.5° | 8598.2 | 8611.0 | 8330.3 | 8138.9 | 8147.5 | 8156.0 | 8360.1 | 8700.3 | 9308.3 | 10299.1 |
| 25° | 9725.1 | 9716.6 | 9270.1 | 8900.1 | 8687.5 | 8640.7 | 8776.8 | 9066.0 | 9559.2 | 10575.5 |
| 27.5° | 11043.3 | 10979.5 | 10533.0 | 9980.2 | 9516.7 | 9448.7 | 9418.9 | 9542.2 | 9916.4 | 10941.2 |
| 30° | 12531.6 | 12472.1 | 11991.6 | 11268.7 | 10626.6 | 10516.0 | 10235.3 | 10171.6 | 10448.0 | 11438.7 |
| 32.5° | 14164.5 | 14126.2 | 13552.2 | 12676.2 | 11817.2 | 11689.6 | 11217.6 | 11047.5 | 11264.4 | 12191.4 |
| 35° | 15533.7 | 15499.7 | 15023.5 | 14122.0 | 13071.6 | 12914.3 | 12433.8 | 12242.4 | 12353.0 | 13156.7 |
| 37.5° | 16771.2 | 16754.2 | 16345.9 | 15635.8 | 14551.5 | 14360.1 | 13820.1 | 13756.3 | 13735.0 | 14428.1 |
| 40° | 17919.3 | 17876.8 | 17451.5 | 17077.3 | 16273.6 | 16099.3 | 15623.0 | 15567.8 | 15406.2 | 15993.0 |
| 42.5° | 19190.7 | 19080.2 | 18463.6 | 18289.2 | 18072.4 | 17927.8 | 17642.9 | 17651.4 | 17294.2 | 17757.7 |
| 45° | 20228.3 | 20164.5 | 19530.9 | 19428.9 | 19662.7 | 19603.2 | 19849.8 | 19913.6 | 19220.5 | 19607.5 |
| 47.5° | 21342.4 | 21282.9 | 20747.1 | 20674.8 | 21308.4 | 21325.4 | 22197.1 | 22218.4 | 21100.0 | 21529.5 |
| 50° | 22715.9 | 22630.9 | 22099.3 | 22188.6 | 22898.8 | 22962.5 | 24557.2 | 24412.6 | 22830.7 | 23481.3 |
| 52.5° | 23621.7 | 23672.7 | 23557.9 | 23702.5 | 24672.0 | 24731.5 | 26878.9 | 26509.0 | 24544.4 | 25407.6 |
| 55° | 24289.3 | 24391.3 | 24748.5 | 25080.2 | 26543.0 | 26602.5 | 29068.9 | 28503.3 | 25964.7 | 27193.6 |
| 57.5° | 25148.2 | 25003.7 | 25671.3 | 26317.6 | 28320.5 | 28477.8 | 31199.3 | 30425.4 | 27223.4 | 28732.9 |
| 60° | 26381.4 | 26279.4 | 26798.1 | 27754.9 | 30310.6 | 30561.4 | 33453.0 | 32156.1 | 28146.1 | 29953.4 |
| 62.5° | 28881.8 | 28626.6 | 28707.4 | 29553.6 | 32819.4 | 33151.1 | 35995.9 | 33665.6 | 28605.4 | 30429.6 |
| 65° | 32619.6 | 32181.6 | 31773.4 | 32360.2 | 36353.1 | 36680.5 | 38866.2 | 34852.0 | 28435.3 | 29506.9 |
| 67.5° | 37326.9 | 36893.2 | 36391.4 | 36944.2 | 41558.0 | 41817.3 | 42408.4 | 35519.7 | 27095.8 | 25951.9 |
| 70° | 41209.3 | 41047.7 | 41647.3 | 43922.2 | 49871.2 | 49879.8 | 46949.9 | 34966.9 | 23426.0 | 18399.8 |
| 72.5° | 40694.7 | 40596.9 | 43756.4 | 50789.8 | 60349.0 | 60123.6 | 51249.0 | 30782.6 | 15780.4 | 8300.5 |
| 75° | 33385.0 | 34018.6 | 38913.0 | 50666.4 | 64112.3 | 64082.5 | 48616.8 | 19569.2 | 6527.3 | 3440.1 |
| 77.5° | 17902.3 | 18905.8 | 25263.1 | 37407.7 | 50049.8 | 50802.5 | 34180.2 | 6846.2 | 2802.3 | 2202.7 |
| 80° | 5838.4 | 6714.4 | 10069.5 | 19046.2 | 32521.8 | 32381.4 | 14649.3 | 2687.5 | 1917.8 | 1560.6 |
| 82.5° | 2479.1 | 2581.2 | 4499.0 | 8993.7 | 16690.4 | 16431.0 | 4664.8 | 1543.6 | 1348.0 | 1067.3 |
| 85° | 969.5 | 1084.3 | 1985.8 | 4158.8 | 7228.9 | 7071.6 | 1683.9 | 765.4 | 863.2 | 697.4 |
| 87.5° | 318.9 | 387.0 | 710.1 | 1424.5 | 2249.5 | 2168.7 | 412.5 | 263.6 | 374.2 | 318.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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 CATALOG NUMBER: GLAN-SB9D-850-U-T4FT

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10482.0 | 0° | 10482.0 | 10482.0 | 10482.0 | 10482.0 | 10482.0 | 10482.0 | 10482.0 | 10482.0 | 10482.0 | 10482.0 |
| 10511.7 | 2.5° | 10571.3 | 10639.3 | 10720.1 | 10839.2 | 10941.2 | 11026.3 | 11115.6 | 11170.9 | 11192.1 | 11255.9 |
| 10528.8 | 5° | 10647.8 | 10796.6 | 10996.5 | 11192.1 | 11383.5 | 11498.3 | 11600.3 | 11651.4 | 11698.1 | 11732.2 |
| 10575.5 | 7.5° | 10775.4 | 10966.7 | 11281.4 | 11536.6 | 11698.1 | 11791.7 | 11859.7 | 11842.7 | 11859.7 | 11868.2 |
| 10626.6 | 10° | 10885.9 | 11153.8 | 11528.0 | 11770.4 | 11893.7 | 11898.0 | 11881.0 | 11821.5 | 11791.7 | 11795.9 |
| 10703.1 | 12.5° | 11017.8 | 11315.4 | 11719.4 | 11923.5 | 11957.5 | 11864.0 | 11791.7 | 11689.6 | 11651.4 | 11634.4 |
| 10817.9 | 15° | 11196.4 | 11536.6 | 11927.8 | 12004.3 | 11919.3 | 11800.2 | 11676.9 | 11511.0 | 11426.0 | 11358.0 |
| 11013.5 | 17.5° | 11413.2 | 11787.4 | 12089.4 | 12034.1 | 11851.2 | 11655.6 | 11455.8 | 11204.9 | 11030.5 | 10958.2 |
| 11281.4 | 20° | 11715.2 | 12051.1 | 12212.7 | 11970.3 | 11693.9 | 11396.2 | 11056.0 | 10749.9 | 10588.3 | 10516.0 |
| 11621.6 | 22.5° | 12080.9 | 12404.0 | 12331.7 | 11859.7 | 11468.5 | 10992.3 | 10567.0 | 10341.7 | 10260.9 | 10209.8 |
| 12059.6 | 25° | 12518.8 | 12795.2 | 12416.8 | 11698.1 | 11098.6 | 10456.5 | 10129.0 | 10056.7 | 10018.5 | 9980.2 |
| 12595.4 | 27.5° | 13088.7 | 13237.5 | 12480.6 | 11460.0 | 10520.2 | 9886.7 | 9767.6 | 9780.3 | 9767.6 | 9703.8 |
| 13339.5 | 30° | 13841.3 | 13811.5 | 12540.1 | 11073.1 | 9856.9 | 9372.1 | 9380.6 | 9435.9 | 9444.4 | 9401.9 |
| 14377.1 | 32.5° | 14832.1 | 14530.2 | 12569.9 | 10571.3 | 9223.3 | 8921.4 | 8929.9 | 8989.4 | 9031.9 | 8959.6 |
| 15733.6 | 35° | 16031.3 | 15367.9 | 12523.1 | 9941.9 | 8734.3 | 8491.9 | 8428.1 | 8445.1 | 8457.9 | 8389.8 |
| 17379.2 | 37.5° | 17430.3 | 16307.7 | 12314.7 | 9244.6 | 8330.3 | 8070.9 | 7934.8 | 7820.0 | 7752.0 | 7688.2 |
| 19241.8 | 40° | 18965.4 | 17332.5 | 11932.0 | 8564.2 | 7879.6 | 7624.4 | 7420.3 | 7203.4 | 6973.8 | 6888.8 |
| 21214.8 | 42.5° | 20572.7 | 18387.0 | 11468.5 | 7913.6 | 7360.8 | 7152.4 | 6935.5 | 6620.9 | 6276.4 | 6102.1 |
| 23264.5 | 45° | 22239.7 | 19467.1 | 11013.5 | 7271.5 | 6829.2 | 6739.9 | 6489.0 | 6110.6 | 5736.4 | 5515.3 |
| 25318.3 | 47.5° | 23872.5 | 20487.7 | 10345.9 | 6625.1 | 6331.7 | 6429.5 | 6233.9 | 5885.2 | 5468.5 | 5119.8 |
| 27355.2 | 50° | 25433.1 | 21444.5 | 9253.1 | 5970.3 | 5927.7 | 6336.0 | 6148.9 | 5647.1 | 5170.8 | 4724.3 |
| 29353.8 | 52.5° | 26981.0 | 22218.4 | 7854.0 | 5374.9 | 5710.9 | 6310.4 | 6038.3 | 5485.5 | 4902.9 | 4435.2 |
| 31233.3 | 55° | 28295.0 | 22618.1 | 6506.1 | 4864.7 | 5396.2 | 6093.6 | 5906.5 | 5294.1 | 4524.5 | 4027.0 |
| 32521.8 | 57.5° | 29043.4 | 22294.9 | 5383.4 | 4362.9 | 4962.5 | 5736.4 | 5681.1 | 4885.9 | 4073.7 | 3691.0 |
| 32772.7 | 60° | 28720.2 | 20985.2 | 4464.9 | 3924.9 | 4550.0 | 5349.4 | 5289.9 | 4481.9 | 3729.3 | 3367.8 |
| 31428.9 | 62.5° | 26938.5 | 18489.1 | 3737.8 | 3542.2 | 4175.8 | 4954.0 | 4898.7 | 4171.5 | 3465.6 | 3117.0 |
| 27861.2 | 65° | 23349.5 | 15040.5 | 3172.2 | 3223.3 | 3797.3 | 4477.7 | 4558.5 | 3912.1 | 3257.3 | 2917.1 |
| 21555.0 | 67.5° | 17808.7 | 10894.5 | 2730.0 | 2946.9 | 3427.4 | 4009.9 | 4243.8 | 3725.0 | 3082.9 | 2759.8 |
| 12472.1 | 70° | 10150.3 | 6187.1 | 2355.8 | 2679.0 | 3099.9 | 3576.2 | 4001.4 | 3576.2 | 2895.8 | 2627.9 |
| 4673.3 | 72.5° | 3848.4 | 2840.6 | 2036.9 | 2411.1 | 2785.3 | 3210.5 | 3733.5 | 3342.3 | 2679.0 | 2479.1 |
| 2415.3 | 75° | 2053.9 | 1730.7 | 1713.7 | 2096.4 | 2423.8 | 2853.3 | 3397.6 | 3112.7 | 2517.4 | 2619.4 |
| 1671.2 | 77.5° | 1399.0 | 1224.7 | 1433.0 | 1794.5 | 2028.4 | 2457.8 | 3040.4 | 2764.0 | 2181.4 | 2172.9 |
| 1156.6 | 80° | 969.5 | 867.5 | 1165.1 | 1445.8 | 1569.1 | 2066.6 | 2653.4 | 2372.8 | 1777.5 | 1658.4 |
| 714.4 | 82.5° | 582.6 | 565.6 | 871.7 | 1080.1 | 1109.9 | 1594.6 | 2198.5 | 1990.1 | 1454.3 | 1267.2 |
| 425.2 | 85° | 318.9 | 335.9 | 557.1 | 633.6 | 646.4 | 1114.1 | 1722.2 | 1539.3 | 1118.4 | 939.8 |
| 153.1 | 87.5° | 89.3 | 114.8 | 204.1 | 250.9 | 310.4 | 578.3 | 1024.8 | 914.2 | 561.3 | 391.2 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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| 180° |
|---------|
| 10482.0 |
| 11251.6 |
| 11740.7 |
| 11881.0 |
| 11804.4 |
| 11625.9 |
| 11379.2 |
| 10962.5 |
| 10507.5 |
| 10218.3 |
| 9980.2 |
| 9716.6 |
| 9423.1 |
| 8993.7 |
| 8436.6 |
| 7730.7 |
| 6927.0 |
| 6123.3 |
| 5498.3 |
| 5081.5 |
| 4686.1 |
| 4384.1 |
| 3984.4 |
| 3640.0 |
| 3316.8 |
| 3061.7 |
| 2861.8 |
| 2708.7 |
| 2593.9 |
| 2445.1 |
| 2704.5 |
| 2002.8 |
| 1586.1 |
| 1275.7 |
| 948.3 |
| 391.2 |
| 0.0 |

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